

Ken YOSHIZUKA, et al. Q84094
IMAGE FORMING APPARATUS,....

Darryl Mexic 202-293-7060
October 13, 2004
2 of 16

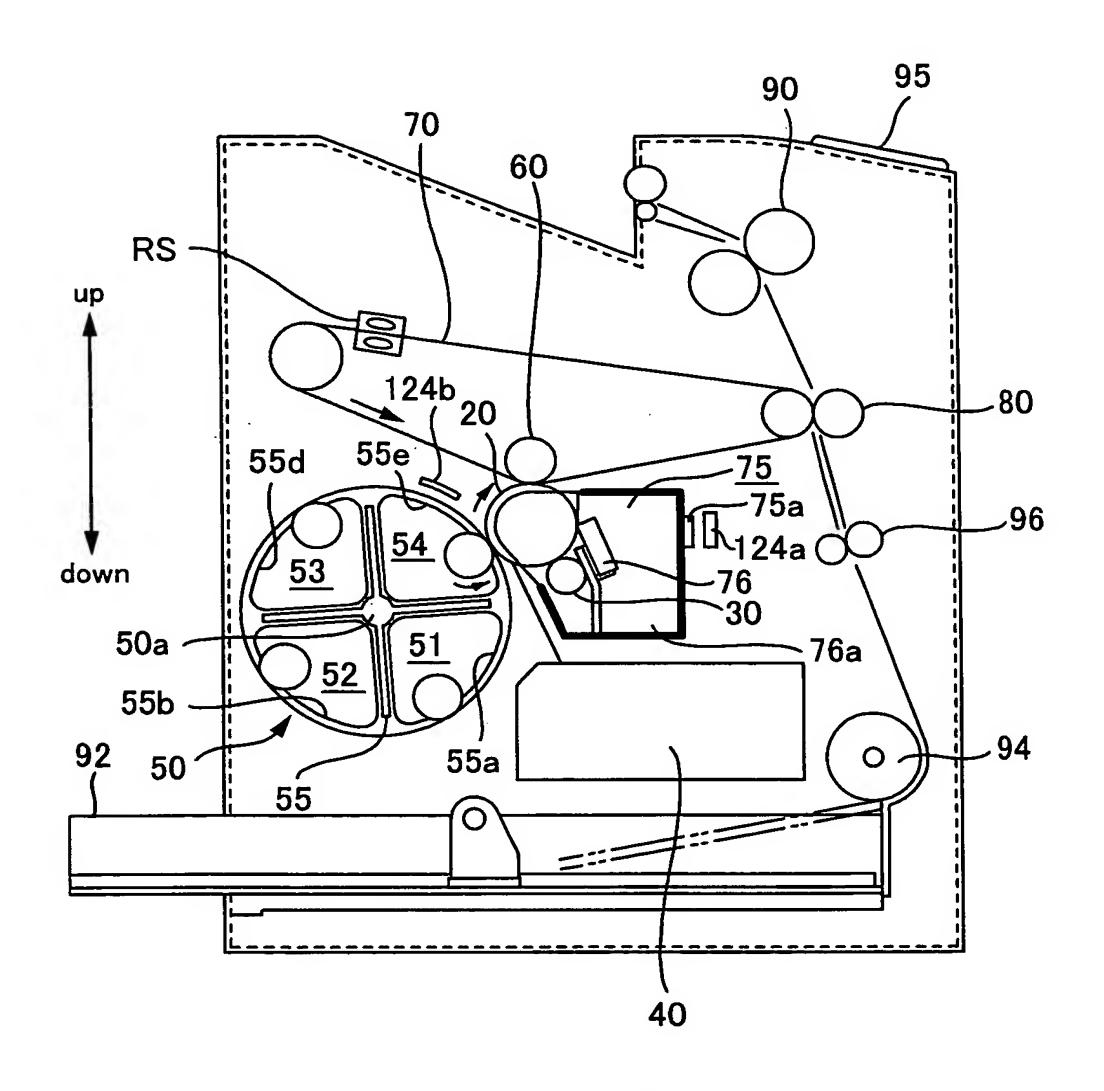


FIG. 2

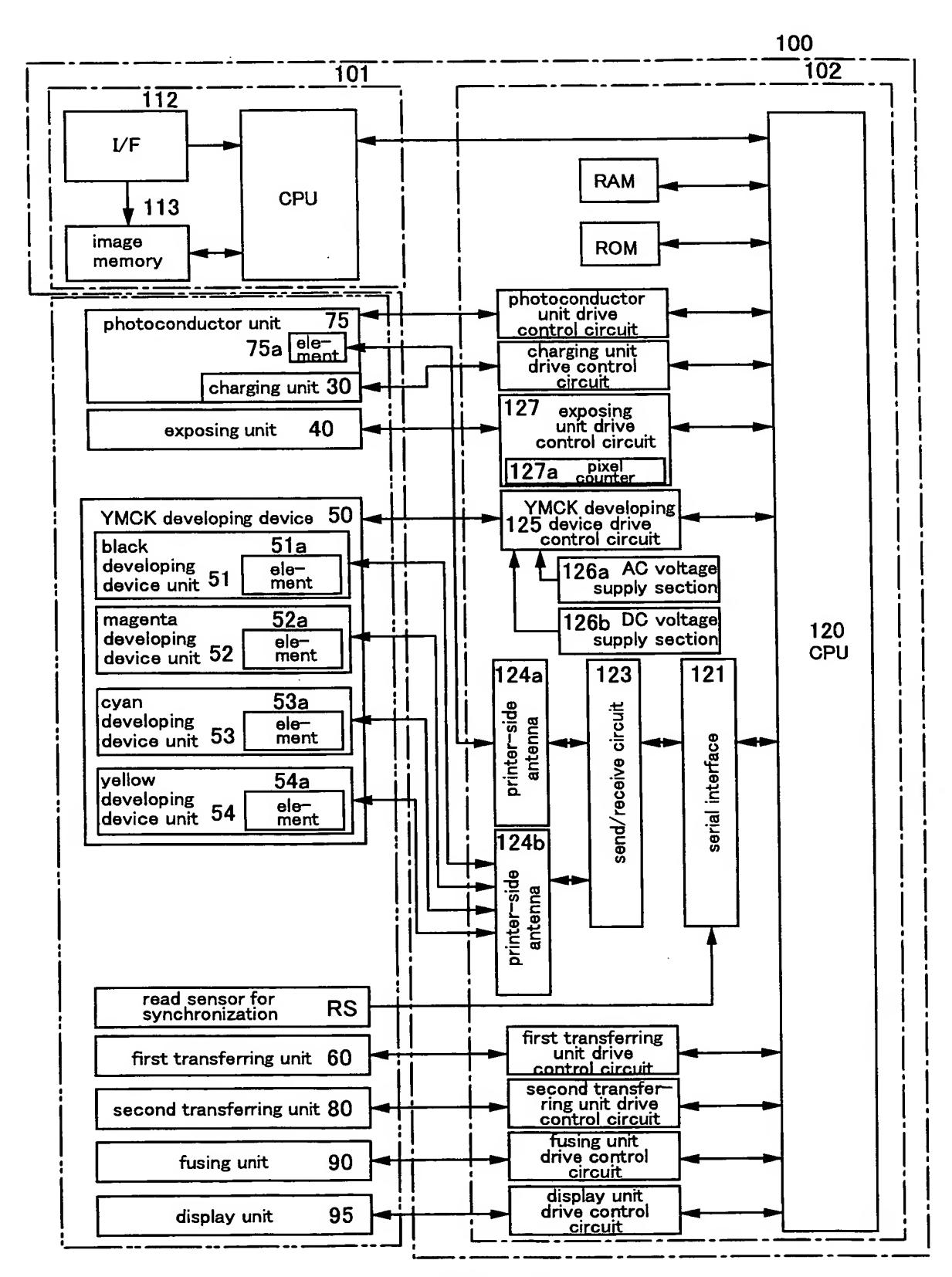
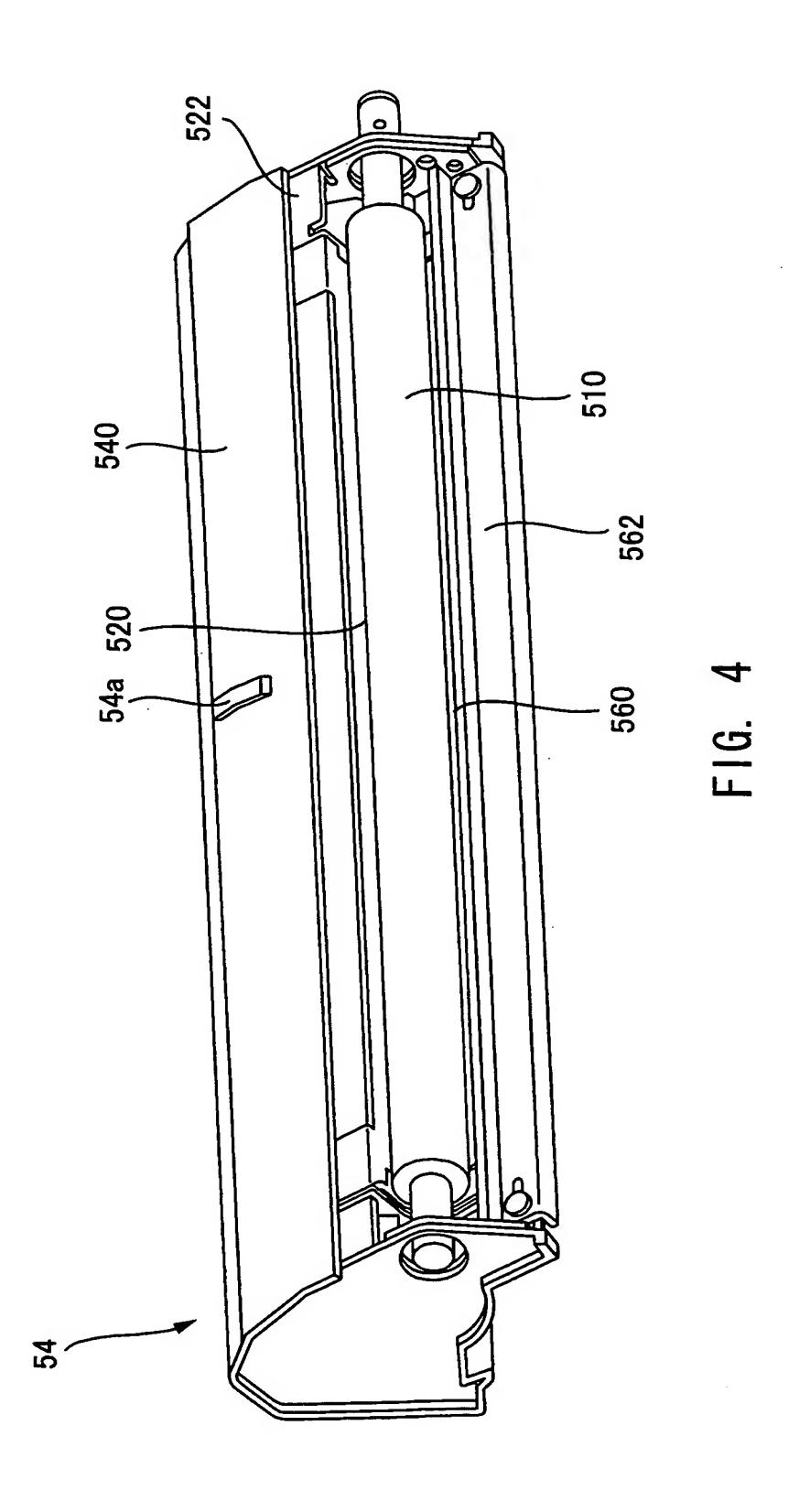


FIG. 3

Ken YOSHIZUKA, et al. Q84094
IMAGE FORMING APPARATUS,

Darryl Mexic 202-293-7060
October 13, 2004
4 of 16 10/510979



Ken YOSHIZUKA, et al. Q84094
IMAGE FORMING APPARATUS,

Darryl Mexic
October 13, 2004 1 0 / 5 1 0 9 7 9

5 of 16

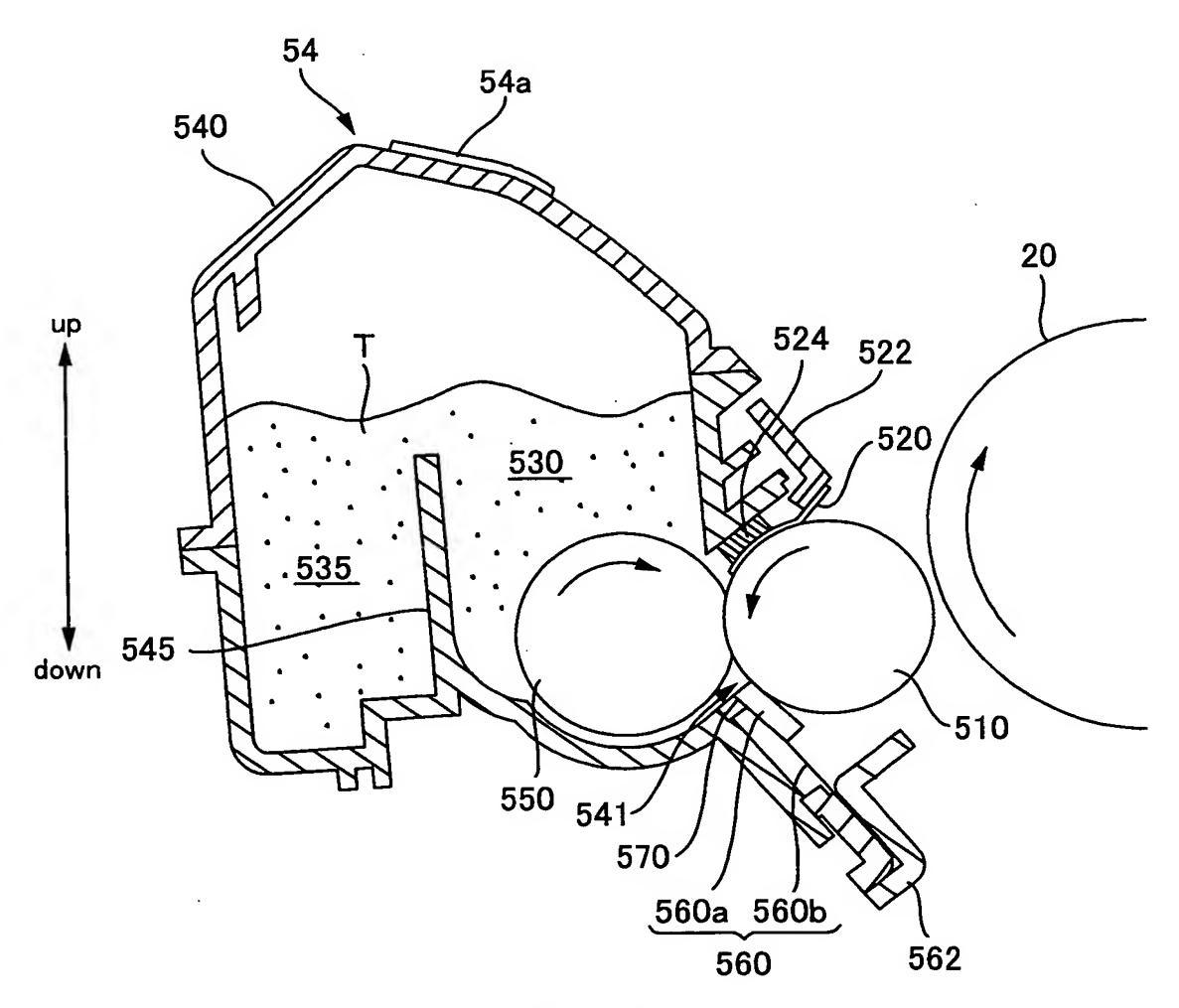


FIG. 5

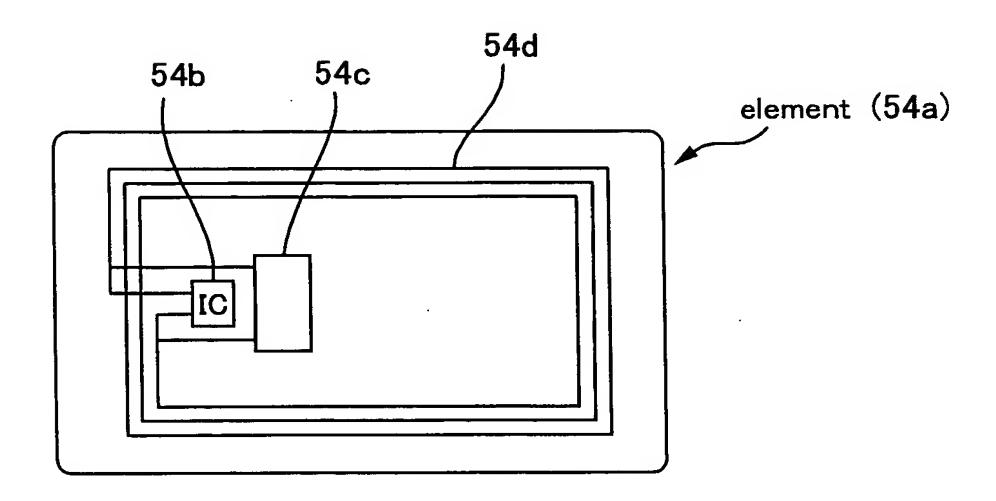


FIG. 6A

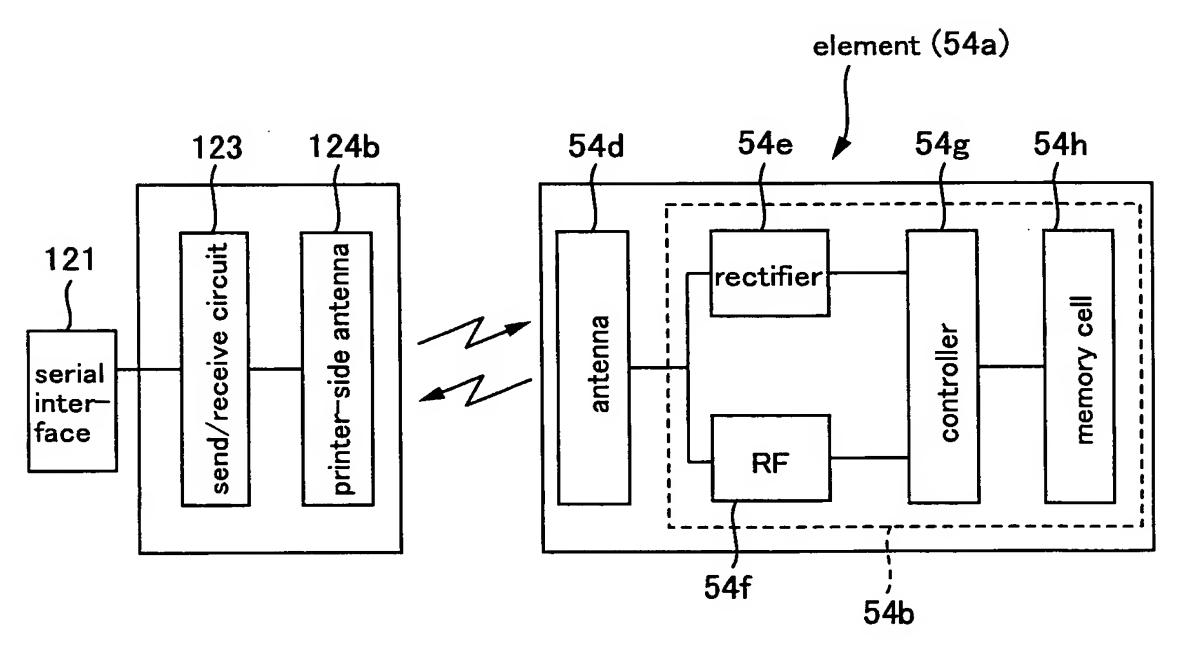


FIG. 6B

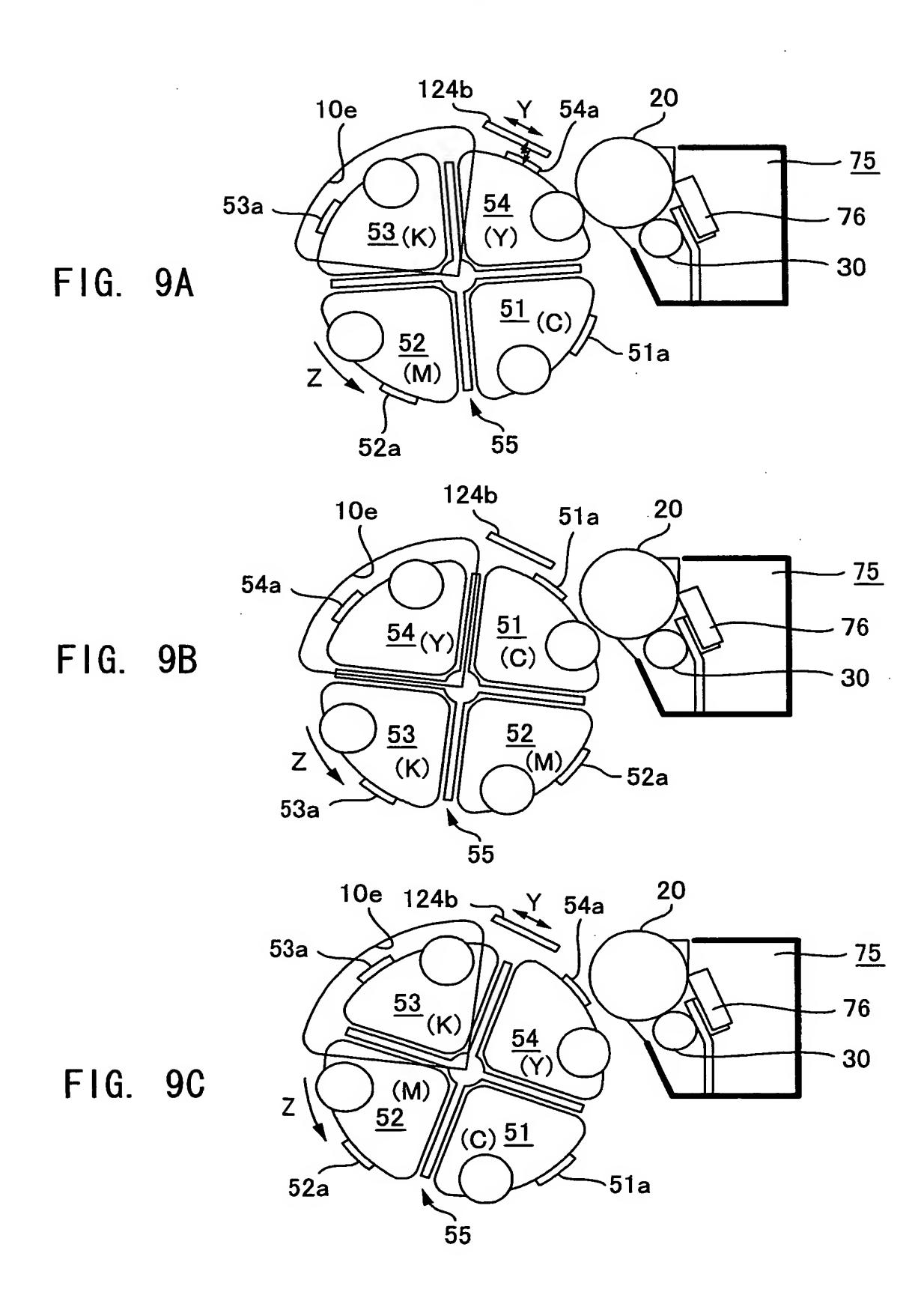
address	information content (8 bit)
00H	ID information
01H	manufacturing date
02H	destination
03H	manufacturing line
04H	compatible models
05H	toner remaining amount

FIG. 7

address	information content (8 bit)
00H	ID information
01H	manufacturing date
02H	destination
03H	manufacturing line
04H	compatible models
05H	number of sheets printed by main unit when usage starts
06H	number of sheets printed by main unit when usage ends
07H	number of sheets printed in color
08H	number of sheets printed in monochrome
09H	number of sheets printed in yellow
0AH	number of sheets printed in magenta
0BH	number of sheets printed in cyan
0CH	number of sheets printed in black
0DH	1
t f	
	[ [

FIG. 8

>



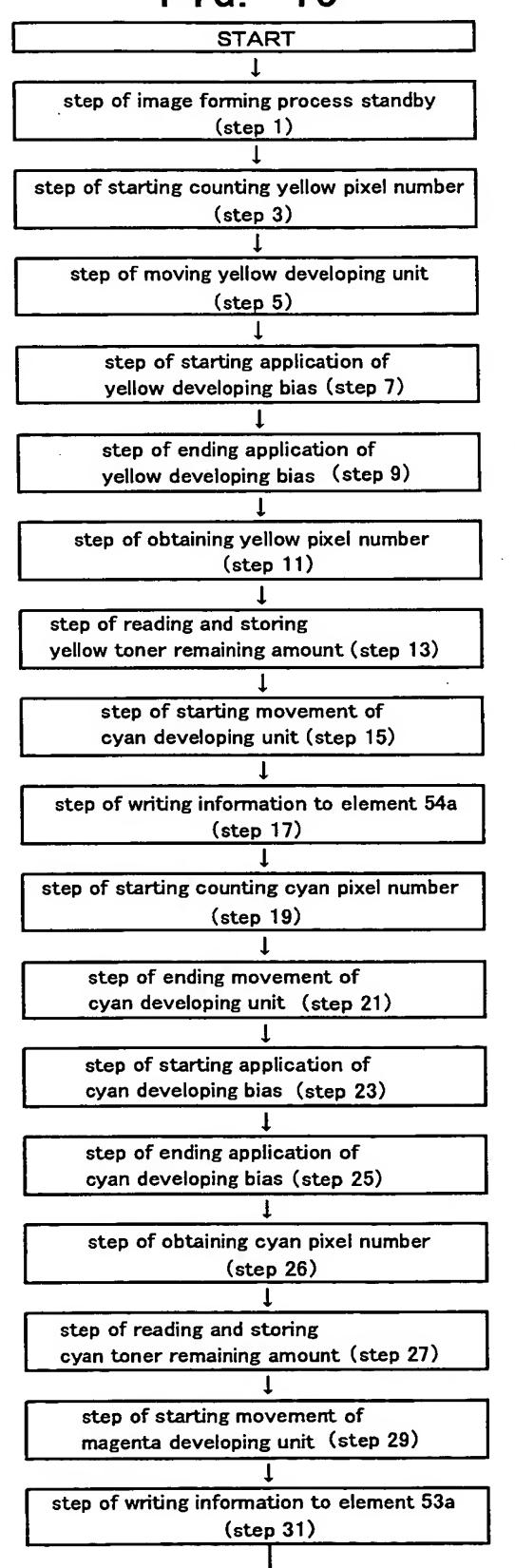
October 13, 2004

10 of 16

10/510979

10/16

## FIG.



step of starting counting magenta pixel number (step 33) step of ending movement of magenta developing unit (step 35) step of starting application of magenta developing bias (step 37) step of ending application of magenta developing bias (step 39) step of obtaining magenta pixel number (step 41) step of reading and storing magenta toner remaining amount (step 43) step of starting movement of black developing unit (step 45) step of writing information to element 52a (step 47) step of starting counting black pixel number (step 49) step of ending movement of black developing unit (step 51) step of starting application of black developing bias (step 53) step of ending application of black developing bias (step 55) step of obtaining black pixel number (step 57) step of reading and storing black toner remaining amount (step 59) step of starting movement to home position (step 61) step of writing information to element 51a (step 63) step of ending image forming process (step 65) **END** 

START
Ţ
step of image forming process standby
(step 101)
<b>↓</b>
step of moving yellow developing unit
(step 105)
<b>1</b>
step of starting application
of yellow developing bias (step 107)
<b>1</b>
step of ending application of
yellow developing bias (step 109)
<b>1</b>
step of starting movement of
cyan developing unit (step 115)
1
step of writing information to element 75a
(step 117)
↓ (passes detaching position)
step of ending movement of
cyan developing unit (step 121)
<b>1</b>
step of starting application of
cyan developing bias (step 123)
Į.
step of ending application of
cyan developing bias (step 125)
<b>↓</b>
step of starting movement of
magenta developing unit (step 129)
<b>↓</b>
step of writing information to element 75a
(step 131)
1 (passes detaching position)
step of ending movement of
magenta developing unit (step 135)
. 1
step of starting application of
magenta developing bias (step 137)
1
step of ending application of
magenta developing bias (step 139)
1
step of starting movement of
black developing unit (step 145)
1
step of writing information to element 75a
(step 147)
1 (passes detaching position)
step of ending movement of
black developing unit (step 151)

step of starting application of
black developing bias (step 153)

step of ending application of
black developing bias (step 155)

temporal starting movement to home position
(step 161)

step of writing information to element 75a
(step 163)

temporal starting process
(step 165)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

temporal starting application of
black developing bias (step 155)

FIG. 11

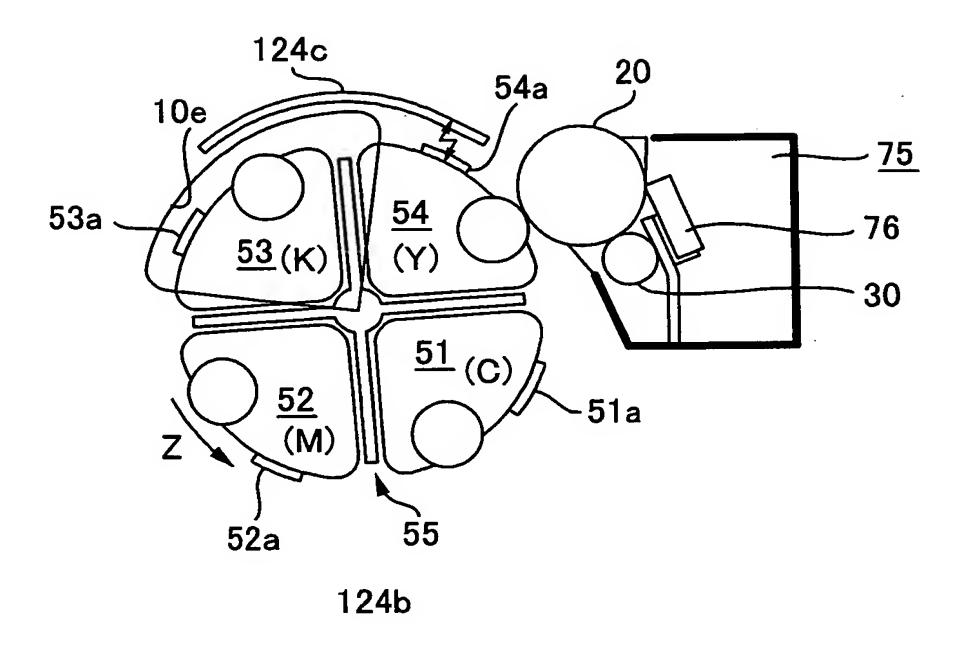


FIG. 12

Ken YOSHIZUKA, et al. Q84094
IMAGE FORMING APPARATUS,

Darryl Mexic 202-293-7060
October 13, 2004
13 of 16

10/510979

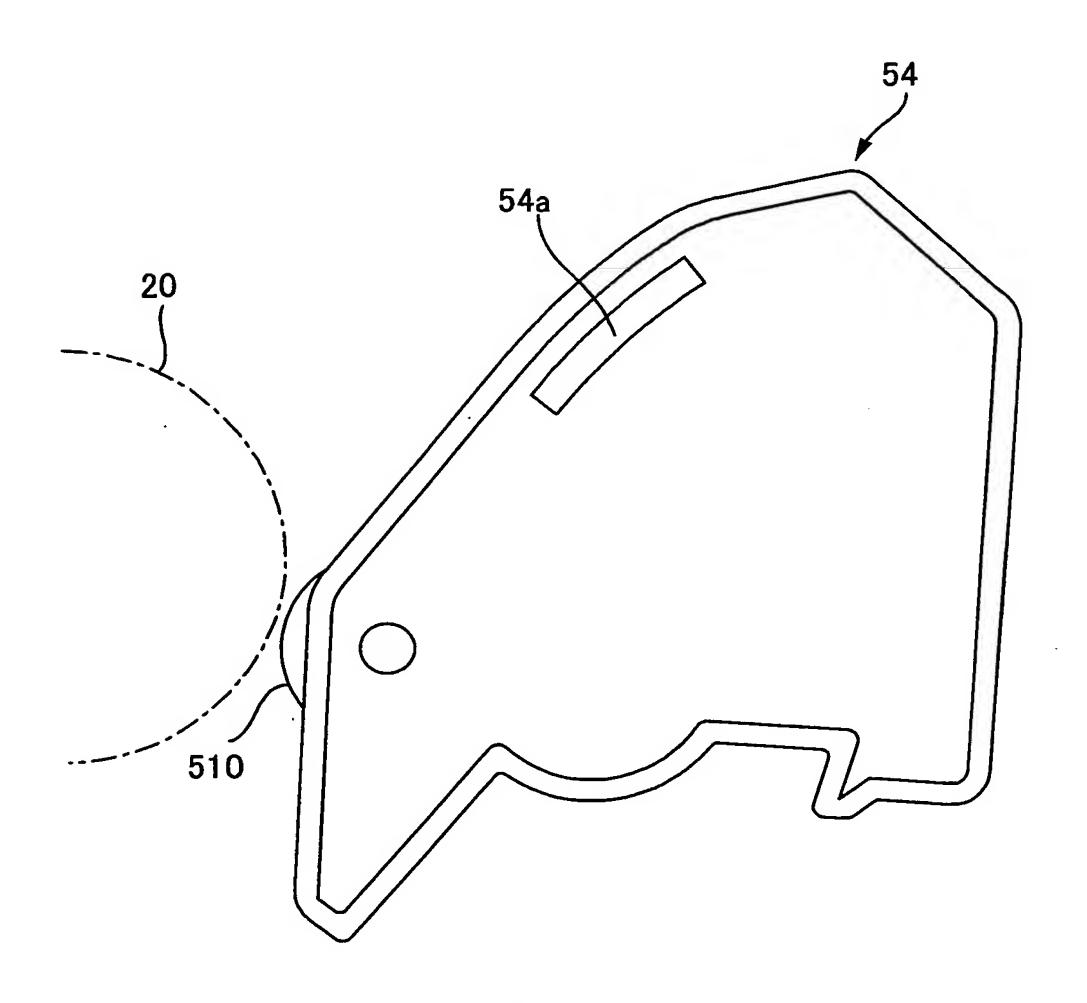


FIG. 13

Ken YOSHIZUKA, et al. Q84094
IMAGE FORMING APPARATUS,

Darryl Mexic 202-293-7060
October 13, 2004
14 of 16 10/510979

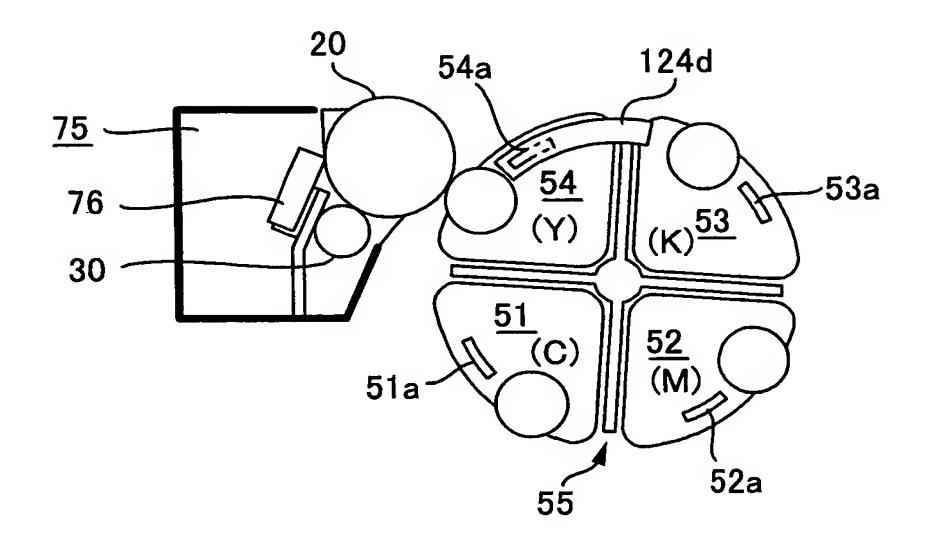
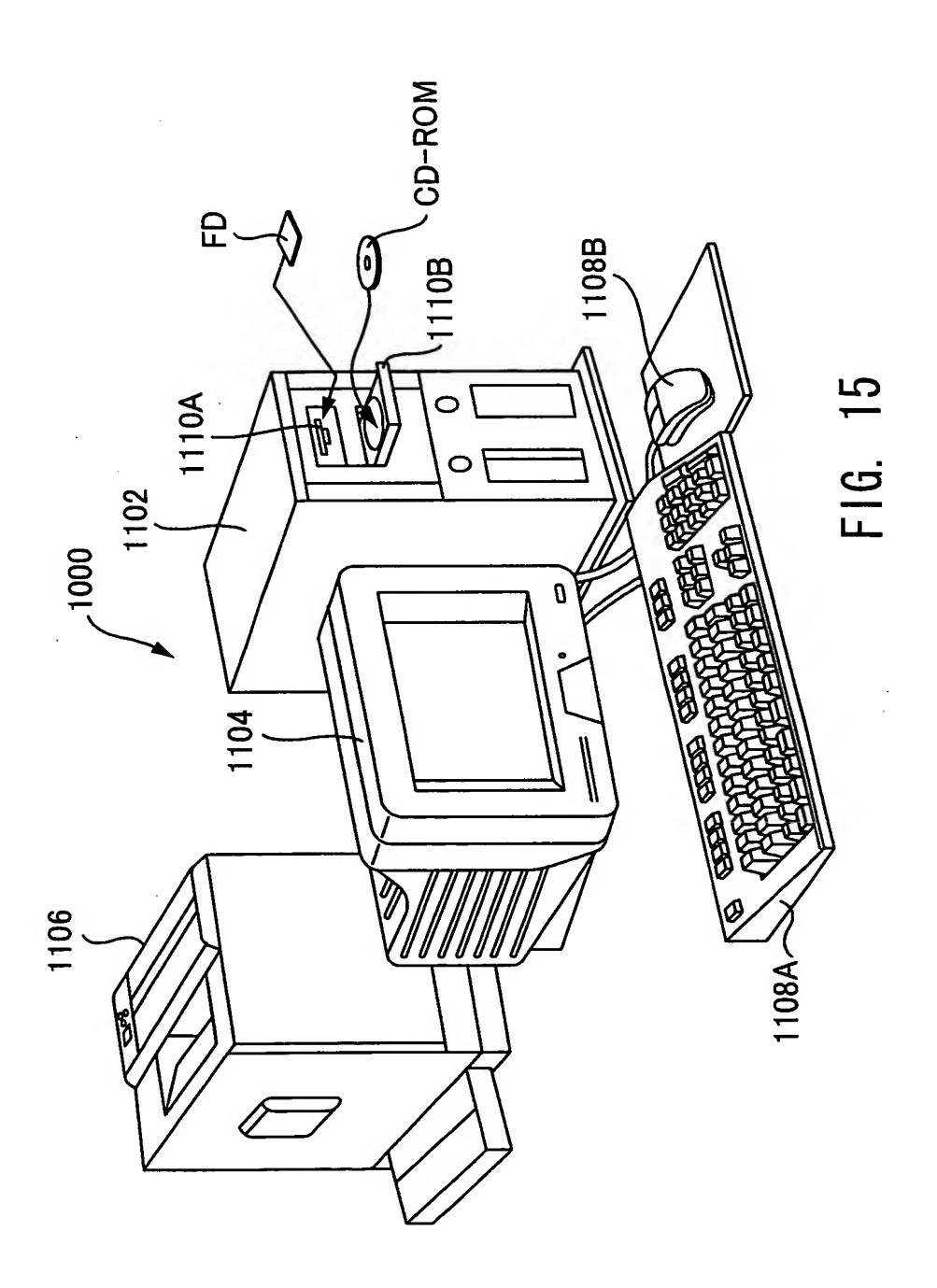


FIG. 14



16/16

